

Dated:

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner: J. Siew

{W:\03153\100g638us4\00150470.DOC [REDACTED]}

Applicants respectfully request that documents listed on the accompanying Form PTO/SB/08 be considered during the examination of this application. It is believed that no fee is required for this submission. However, in the even that a fee is required, please charge the required fee to our Deposit Account No. 04-0100.

Dated: March 15, 2004

Respectfully submitted,

By Samuel S. Woodley
Samuel S. Woodley, Ph.D.
Registration No.: 43,287
DARBY & DARBY P.C.
P.O. Box 5257
New York, New York 10150-5257
(212) 527-7700
(212) 753-6237 (Fax)
Attorneys/Agents For Applicant

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	Not Yet Assigned
				Filing Date	Concurrently Herewith
				First Named Inventor	Hou-Pu Chou
				Art Unit	1637
				Examiner Name	J. Siew
Sheet	1	of	2	Attorney Docket Number	03153/100G638-US4

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA**	US-4,108,565	04-19-1977	Fletcher, III et al.	
	AB**	US-6,015,531	01-18-2000	Colin et al.	
	AC**	US-6,043,080	03-28-2000	Lipshutz et al.	
	AD**	US-6,103,199	08-15-2000	Bjornson et al.	
	AE**	US-4,581,624	04-08-1986	O'Connor, JM	
	AF**	US-4,585,209	04-29-1986	Aine, H.E., et al.	
	AG**	US-5,417,235	05-23-1995	Wise, K.D., et al.	
	AH**	US-5,445,934	08-29-1995	Fodor et al.	
	AI**	US-5,454,472	10-03-1995	Benecke et al.	
	AJ**	US-5,726,404	03-10-1998	Brody	
	AK**	US-5,837,832	11-17-1998	Chee et al.	
	AL**	US-5,880,690	08-01-1998	Chow et al.	
	AM**	US-5,948,227	09-07-1999	Dubrow	
	AN**	US-5,965,001	10-12-1999	Chow et al.	
	AO**	US-6,042,709	03-28-2000	Parce et al.	
	AP**	US-6,007,690	12-28-1999	Nelson et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	BA**	WO-99/61888	12-02-1999	WIPO	
	BB**	WO-01/34302	05-17-2001	WIPO	
	BC**	WO-01/45843	06-28-2001	WIPO	
	BD**	WO-01/89695-A1	11-29-2001	WIPO	
	BE**	JP-09043251	02-14-1997		
	BF**	WO-WO 98/52691	11-26-1998		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. **CITE NO.: Those patent(s) or publication(s) which are marked with an double asterisk (**) next to the Cite No. are not supplied because they were previously cited by or submitted to the Office in a prior application relied upon in this application for an earlier filing date under 35 U.S.C. 120. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CA**	Angell, et al., "Silicon Micromechanical Devices,"	Scientific American, April 1983, 248: pages 44-55
	CB**	Joel S. Bader, et al., "DNA transport by a micromachined Brownian ratchet device," PNAS, Nov. 9, 1999., Vol. 96(23), pages 13165-13169	
	CC**	J.P. Brody, et al., "Low Reynolds number micro-fluidic devices," In Proc. of Solid-State Sensor and Actuator Workshop, June 1996, pages 105-108	

Examiner Signature	Date Considered
--------------------	-----------------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	Not Yet Assigned
				Filing Date	Concurrently Herewith
				First Named Inventor	Hou-Pu Chou
				Art Unit	1637
				Examiner Name	J. Siew
Sheet	2	of	2	Attorney Docket Number	03153/100G638-US4

CD**	Castro, A., et al., "Fluorescence Detection and Size Measurement of Single DNA Molecules," Analytical Chemistry, April 1, 1993, Vol. 65, pages 849-852	
CE**	N.H. Chiem, et al., "Microchip Systems for Immunoassay: an Integrated Immunoreactor with Electrophoretic Separation for Serum Theophylline Determination," Clinical Chemistry, (1998), Vol. 44, No. 3, page 591	
CF**	Hou-Pu Chou, et al., "A microfabricated device for sizing and sorting DNA molecules," PNAS, Jan. 1999, Vol. 96, pages 11-13	
CG**	E. Delamarche, et al., "Patterned Delivery of Immunoglobulins to Surfaces Using Microfluidic Networks," Science, May 2, 1997, Vol. 276, pages 779-781.	
CH**	S. Fiedler, et al., "Dielectrophoretic Sorting of Particles and Cells in a Microsystem," Analytical Chemistry, May 1, 1998, Vol. 70, pages 1909-1915	
CI**	A. Y. Fu, et al., "A Microfabricated Fluorescence-Activated Cell Sorter," Nature Biotechnology, November 1999, Vol. 17, pages 1109-1111	
CJ**	Goodwin, P.M., et al., "Rapid sizing of individual fluorescently stained DNA fragments by flow cytometry," Nucleic Acids Research, 1993, Vol. 21, No. 4, pp. 803-806	
CK**	D.J. Harrison, et al., "Micromachining a Miniaturized Capillary Electrophoresis-Based Chemical Analysis System on a Chip," Science, Aug. 13, 1993, Vol. 26, pages 895-897	
CL**	R.S. Kane, et al., "Patterning Proteins and Cells Using Soft Lithography," Biomaterials, 1999, Vol. 20, pages 2363-2376	
CM**	P.H. Li., D.J. Harrison, Analytical Chemistry 69, 1564(1997).	
CN**	J.P. Nolan, et al., "The emergence of flow cytometry for sensitive, real-time measurements of molecular interactions," Nature Biotechnology, July, 1998, Vol. 16, pages 633-638	
CO**	M.A. Unger et al., "Monolithic Microfabricated Valves and Pumps Using Multi-layer Soft Lithography," Science, April, 2000, Vol. 288 (5463): pages 113-116	
CP**	Alan Van Orden, et al., "High-throughput flow cytometric DNA fragment sizing," Anal. Chem., Jan. 1, 2000, Vol. 72(1), pages 37-41	
CQ**	L.C. Waters, et al., "Microchip devices for cell lysis, multiplex PCR amplification, and electrophoretic sizing," Analytical Chemistry, January 1, 1998, Vol. 70, No. 1, pages 158-162	
CR**	G. Whitesides, Y. Xia, "Soft Lithography," Angewandte Chemie International Edition 37, 1998, Vol. 37, pages 550-575	
CS**	A.T. Woolley, et al., "Capillary Electrophoresis Chips with Integrated Electrochemical Detection," Analytical Chemistry, February 15, 1998, Vol. 70, No. 4, pages 684-688	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. **CITE NO.: Those patent(s) or publication(s) which are marked with an double asterisk (**) next to the Cite No. are not supplied because they were previously cited by or submitted to the Office in a prior application relied upon in this application for an earlier filing date under 35 U.S.C. 120.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--